

#Puppet code to install and configure Jenkins on CentOS 9

```
class jenkins {

# -----
# Jenkins repository
# -----
yumrepo { 'jenkins':
  baseurl => 'https://pkg.jenkins.io/redhat-stable',
  descr   => 'Jenkins Stable Repo',
  enabled => 1,
  gpgcheck => 1,
  gpgkey  => 'https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key',
}

# -----
# Adoptium repository
# -----
yumrepo { 'adoptium':
  baseurl => 'https://packages.adoptium.net/artifactory/rpm/rhel/$releasever/$basearch',
  descr   => 'Adoptium',
  enabled => 1,
  gpgcheck => 1,
  gpgkey  => 'https://packages.adoptium.net/artifactory/api/gpg/key/public',
}

# -----
# Required packages
# -----
package { ['fontconfig', 'java-21-openjdk']:
  ensure => present,
}

package { 'jenkins':
  ensure => present,
  require => Yumrepo['jenkins'],
}
```

```

# -----
# systemd override directory
# -----
file { '/etc/systemd/system/jenkins.service.d':
    ensure => directory,
    mode   => '0755',
}

# -----
# Jenkins port configuration
# -----
file { '/etc/systemd/system/jenkins.service.d/override.conf':
    ensure => file,
    mode   => '0644',
    content => "[Service]\nEnvironment=\"JENKINS_PORT=8000\"\n",
    notify  => Exec['systemd-daemon-reload'],
}

# -----
# Reload systemd
# -----
exec { 'systemd-daemon-reload':
    command    => '/bin/systemctl daemon-reload',
    refreshonly => true,
}

# -----
# Jenkins service
# -----
service { 'jenkins':
    ensure => running,
    enable => true,
}

# -----
# Firewall rule
# -----
exec { 'open-jenkins-port':

```

```
command => '/usr/bin/firewall-cmd --permanent --add-port=8000/tcp',  
unless => '/usr/bin/firewall-cmd --list-ports | grep -q 8000/tcp',  
notify => Exec['firewalld-reload'],  
}
```

```
exec { 'firewalld-reload':  
  command => '/usr/bin/firewall-cmd --reload',  
  refreshonly => true,  
}
```

```
}
```